

MOROZOV, A.P.

Automatic control of intraprovince through calls at the Leningrad
Long-Distance Telephone Office. Vest.sviazi 20 no.3:16-18 Mr
'60. (MIRA 13:6)

1. Glavnyy inzhener Leningradskoy mezhdugorodnoy telefonnoy stantsii.
(Leningrad--Telephone, Automatic)

BUYNOV, A.V., kand. tekhn. nauk, MOROZOV, A.P., inzh.

Pay telephone for long-distance communication. Vest. svyazi
24 no.11:14 N '64. (MIRA 18.2)

MILEYKOVSKIY, Solomon Gerasimovich; POKROV, Arkadiy Petrovich;
POLYAK, M.U., retsenzent; KHILAK, K.D., retsenzent;
ABOLITS, I.A., otv. red.; MANUKAYA, I.M., red.

[Long-distance communication and multiplexing of municipal
telephone networks] Dal'niaia svyaz' i uplotnenie gorod-
skikh telefonnykh tsepei. Moskva, Izd-vo "Svyaz'," 1964.
357 p. (MIRA 17:10)

MOROZOV, A. P.

PA 237T67

USSR/Geophysics - Waves

Dec 52

"Diversity of Waves," A. P. Morozov, Leningrad Div
of State Inst of Oceanography

"Meteorol i Gidrol" No 12, pp 39-42

A variety of waves are always observed on disturbed surface of the sea; and in consequence of their extreme diversity, height, period, length and other elements can be considered as variable quantities.

237T67

MORCZOV, A.P.

Use of the open-sea wave recorder VOM-2-TM in studying the action of
waves. Trudy GOIN no.22:19-35 ' 52. (MIRA 12:1)
(Oceanographic instruments) (Waves)

MOROZOV, A.P.

Provisional instruction of work with the open-sea wave recorder VOM-47-TM.
Trudy GOIN no.22:36-51 ' 52. (MIRA 12:1)
(Oceanographic instruments) (Waves)

MOROZOV, A.P.

Currents at the Liepaja lightship. Trudy GOIN no.41:46-53 '57.

(MIRA 11:9)

(Liepaja region--Ocean currents)

MURZEV, A. I.

PHASE I BOOK EXPLOITATION

SOV-1443

Sovetskaya antarkticheskaya ekspeditsiya

Vtoraya morskaya ekspeditsiya na d/e "Ob", 1956-1957 g. i obshcheye
opisaniye i nauchnyye rezultaty (Second Marine Expedition on the Diesel-
Electric Ship "Ob", 1956-57; General Description and Scientific Results)
Leningrad, Morskoy transport, 1959, 175 p. (Series: Its: 'Materialy', no. 5)
Errata slip inserted. 1,200 copies printed.

Sponsoring Agency: Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy
institut.

Ed. (Title page): I. V. Maksimov, Doctor of Geographical Sciences, Professor;
Ed.: I. G. Kaplinskaya; Tech. Ed.: O. I. Kutiakova.

PURPOSE: This book is intended for oceanographers, meteorologists, and
hydrocnemists.

Card 1/6

Second Marine Expedition (Cont.)

SOV 5421

COVERAGE The present volume, the fifth in a series of seven, is a collection of articles (except for two devoted specifically to the oceanography, meteorological, and hydrochemical findings of the Second Soviet Marine Expedition conducted on the diesel ship "Ob" (H. A. Mat, Captain) during 1956-57. The first two articles outline the Expedition's organization and program, and provide a general account of its activities during the 223-day voyage, which covered more than 40,000 miles of the Atlantic, Antarctic, and Indian Oceans. The expedition was sponsored by the Arctic and Antarctic Scientific Research Institute of the Glavnevmorput' Ministerstva morskogo flota SSSR (Main Administration of the Northern Sea Route of the Ministry of the Merchant Marine of the USSR) as part of the International Geophysical Year program. Its purpose was to investigate: 1) atmospheric processes in the Antarctic region and their effect on the earth's general circulation, 2) basic regularities in the distribution of waters in the southern oceanic zone, 3) exchange of the waters of the southern seas with the waters of the world ocean, 4) geological structure of the sea bottom in the Antarctic region, and 5) the plankton, benthos

Card 2/6

Second Marine Expedition to Antarctica

SOV 14-1

Antarctica, and the organisms of the Antarctic waters. Variations of the magnetic field of the earth were also made. The expedition, headed by Professor Leonid Vladislavovich Maksimov, Doctor of Geographical Sciences and Professor at the Leningradskoye vyssheye inzhenernoye nauchnoye uchilishche (Leonid S. O. Maksimov), consisted of the following 8 scientific task forces: aerometeorological (headed by Leonid Gennadievich Serdyuk), hydrological (Karl Vladimirovich Morozhkin), geologist (Alexander Petrovich Lisitsyn), hydrochemical (Alexsey Nikolayevich Bogoyavlenskyy), hydrobiological (Viktor Aleksandrovich Arsen'yev), geophysicist (Nikolay Panteleymonovich Grushinskyy), geographer (Grigoriy Dmitriyevich Rastvorov), and hydrographic (Guryy Aleksandrovich Gordeyev). A complete list of the names and affiliations of the 65 scientific and administrative members of the Expedition is contained in the first article. The articles were written by members of the Institut okeanologii Akademii nauk SSSR (Institute of Oceanology Academy of Sciences USSR), Gosudarstvennyy okeanograficheskyy Institut Gidrometsluzhby SSSR (State Oceanographic Institute of the Hydro-

Card 3/6

Second Marine Expedition (Cont.)

847-1411

meted on the service of the USSR, Vologodskaya, and classified at the
chly Institut rybnogo khozyaystva i okeanografiya (All-Union Scientific Re-
search Institute of Fisheries and Oceanography), and the Arctic and Anti-
arctic Scientific Research Institute. There are no references.

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Second Marine Expedition (1951)

SOV 8498

Kutyurin, V. M. Determining the Content of Chlorophyll in Sea Water and the Spectral Analysis of Phytoplankton Pigments

(7)

AVAILABLE Library of Congress (G500, S50)

Card 5/6

JA/dm,dc
1951

MOROZOV, A.P., mladshiy nauchnyy sotrudnik

Nature of sea waves in Antarctic waters. Inform. biul. Sov. antark.
eksp. no.9:35-39 '59 (MIRA 13:3)

1. Leningradskoye otdeleniye Gosudarstvennogo okeanograficheskogo
instituta.

(Antarctic regions--Waves)

MOROZOV, A.P.

Wave recording methods used on ships. Trudy Okean kom. 9:181-185
'60. (MIRA 14:1)

(Waves)

MILEYKOVSKIY, Solomon Gerasimovich; MOROZOV, Arkadiy Iet'ovich;
POLYAKOV, M.U., reitsenent; KHERN, K.D., reitsenent;
ABOLITS, I.A., otv. red.; ULANOVSKAYA, N.M., red.

[Long-distance communication and multiplexing: municipal
telephone circuits] Dal'niaia sviaz' i upotrebleniye ot-
skikh telefonnykh tsepei. Moskva, Izd-vo "Svyaz," 1981.
357 p. (S.M.A. 1751)

MOROZOV, A.P.

Method of determining the curvature of the regulation direction.
Trudy NIIVTa no.16:29-33 '64. (MIRA 18:4)

L 04579-07 IWB 19
ACC NR: AP6033147

SOURCE CODE: UR/0238/66/012/005/0571/0575

AUTHOR: Yankovs'kyi, V. D.--Yankovskiy, V. D.; Morozov, O. P.--Morozov, A. P.;
Adamenko, M. P.--Adamenko, N. P.

ORG: Department of the Physiology of Hypoxic and Hyperoxic States, Institute of
Physiology im. O. O. Bohomolets, AN UkrSSR, Kiev (Viddil fiziolohiyi hipoksychnykh i
hiperoksychnykh staniv Instytutu fiziolohiyi Akademiyi nauk UkrRSR)

TITLE: Reanimation of dogs following clinical death due to radial acceleration

SOURCE: Fiziologichnyy zhurnal, v. 12, no. 5, 1966, 571-575

TOPIC TAGS: reanimatology, reanimation, dog, experiment animal, clinical death,
radial acceleration

ABSTRACT: Despite many statements in the literature that death resulting from
exposure to large accelerations is accompanied by drastic changes in tissues and
organs which are easily observed by gross and microscopic examination, N. N. Sirotinin
felt that reanimation of animals succumbing to radial accelerations was fully
feasible. The authors conducted a series of experiments under his direct supervision
and found that dogs can be reanimated following clinical death resulting from radial
accelerations of up to 40 G by the method of artificial circulation devised by
Bryukhonenko and modified by N. P. Adamenko. The longest periods of clinical death
due to radial accelerations following which full restoration of functions could be

Card 1/2

L 04579-67

ACC NR: AP6033147

attained varied from 15 min 45 sec to 19 min 30 sec, which once more explodes the erroneous notion that reanimation cannot succeed following clinical death of more than 5—8 min duration. The reanimated dogs live for years (observations have lasted 3 years), bear normal litters, and differ in no respect from normal dogs in behavior and work capacity. Sinantrin, a new Soviet heparin analog, was found to be a fully satisfactory anticoagulant during reanimation by the artificial circulation method, even following the acute clinical death produced by the experiment. Orig. art. has: 1 table.

SUB CODE: 06/ SUBM DATE: 15Jun66/ ORIG REF: 005/ ATD PRESS: 5100

Card 2/2 vmb

ADAMENKO, N.P. [Adamenko, M.P.]; GERYA, Yu.F. [Herla, IU.F.]; MOROZOV, A.P.
[Morozov, O.P.]; YANKOVSKIY, V.D. [Iankovs'kyi, V.D.]

Basic results of S.S. Briukhonenko's artificial blood circulation
and its recent variations in experimental reanimation of a dead
organism. Fiziol.zhur. [Ukr.] 11 no.4:470-475 J1-Ag '65.

(MIRA 18:10)

1. Laboratoriya gipoksicheskikh i giperoksicheskikh sostoyaniy
Instituta fiziologii im. A.A. Bogomol'tsa AN UkrSSR, Kiev.

L 64466-65 ENT(d)/ESS-2

ACCESSION NR: AR5006553

8/0274/64/000/012/V026/V026
621.397.7

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz'. Sv. t., Abs. 12V157

AUTHOR: Vershkov, M. V.; Kosarev, I. A.; Morozov, A. P.; Onishchenko, T. A.

TITLE: Prospects for using facsimile transmission in the navy

CITED SOURCE: Informats. ab. Tsentr. n.-i. in-t morsk. flota, vyp. 109, 1964, 56-71

TOPIC TAGS: facsimile transmission, navy facsimile service

TRANSLATION: The principles of facsimile transmission and reception are reported as well as the parameters of Soviet-made facsimile equipment (FTA-K, "Ladoga", FTA-P, FTA-P2, "Rekord", "Prizma", "Arfa", and "Neva"). Steps for increasing noise immunity in the radio transmission are considered. The FTA-K transmitter and "Ladoga" receiver are recommended for transmission of meteor maps and other large-frame graphic material in the navy. A special attachment connected between the transmitter output and the VChD-100 exciter was developed for radio and wire channels. The attachment isolates the picture frequency up to 1400 cps from FM facsimile signals having a central frequency of 1900 cps and a deviation of

Card 1/2

L 64466-65

ACCESSION NR: AR5006553

± 400 cps for radio transmission, or having a central frequency of 2300 cps and a deviation of ± 300 cps for wire transmission. A block diagram of the attachment is presented. It is noted that in foreign countries dozens of radio stations are in operation which transmit the facsimile weather maps with the basin specific features intended for ships. It is held expedient to organize such facsimile transmissions in the USSR and to equip all navy ships with facsimile receivers. Some information is supplied on the technical and economic efficiency of using facsimile equipment in the navy. Three illustrations.

SUB CODE: *ec*, MS

ENCL: 00

llc
Card 2/2

1. MOROZOV, A. R.
 2. USSR (600)
 4. Stock and Stockbreeding--Study and Teaching
 7. Disseminating progressive practice in animal husbandry, Sots. zhiv., 15, No. 2, 1953.
9. Monthly List of Russian Accessions, Library of Congress, April, 1953, Uncl.

AFANAS'YEVA, Nina Ivanovna; MOROZOV, Aleksandr Rudol'fovich; LEBED V. P.B.,
redaktor; YUSFINA, N.L., tekhnicheskiy redaktor

[The club and socialist competition among collective farm workers]
Klub i sotsialisticheskoe sorevnovanie kolkhoznikov. Moskva, Gos.
izd-vo kul'turno-prosvetitel'noi lit-ry, 1956. 58 p. (MLRA 9:12)
(Collective farms) (Socialist competition)

TRAPEZNIKOV, A.A.; MOROZOV, A.S.; PETRZHUK, G.G.

Normal stresses in structurized colloidal systems, and the
effect of the thixotropic recovery of structure on them.
Koll. zhur. 22 no. 6:761-762 M-D '60. (MIRA 13:12)

1. Institut fizicheskoy khimii AN SSSR, Moskva Laboratoriya
olekolloidov i monosloyev.
(Colloids)

S/G20/60/133/003/030/051/XX
B004/B064

AUTHORS: Trapeznikov, A. A., Morozov, A. S., and Petrzniak, G. G.
TITLE: The Dependence of Normal and Shearing Stresses on the Extent
of Deformation During the Transition of the Aluminum
Naphthenate Gel From the State of Rest Into Steady Flow
PERIODICAL: Doklady Akademii nauk SSSR, 1960 Vol. 133, No. 3,
pp. 637 - 640

TEXT: The authors aimed at a quantitative determination of the development in time of normal stress as a function of deformation during a continuous transition from the state of rest into steady flow. The experiments were conducted with a 2% solution of aluminum naphthenate gel in Vaseline oil. To render possible a simultaneous measurement of normal stress P_n and shearing stress P_τ , a rheogeniometric apparatus supplementing the plasto-viscosimeter was designed (Fig. 1). In principle, it consisted of a flat cone combined with a disk. The perpendicular displacement of the disk under the action of the normal force F and its rotation under the action of the

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The Dependence of the Normal and Shearing
Stresses on the Extent of Deformation During
the Transition of the Aluminum Naphtrenate Gel
From the State of Rest Into Steady Flow

S/O20/50/133/003/C30/C31/XX
B004/B064

torque of the tangential force F_{τ} were measured with a spring dynamometer and recorded with an electronic potentiometer of the type ДПМ-09 (EPP-09) or an MNO-2 (MPO-2) loop oscilloscope. Fig. 2 shows P_n and P_{τ} as a function of deformation, ϵ , at various rates of deformation. The viscosity determined from $\eta = P_{\tau s} \epsilon$ (the subscript s denotes steady flow), falls, as a rule with rising $\dot{\epsilon}$ (Fig. 3). Fig. 2 indicates that P_n and P_{τ} have a maximum.

T. G. Shalopalkina and A. A. Trapeznikov obtained the same result in 1955, as may be seen from Fig. 4. The experimental data show that at $\epsilon > 1700$ the structure of the system undergoes changes exerting a stronger effect on normal stress than on tangential stress. The normal stress depends on the entanglement of the particles. The longer and the more entangled they are, the greater is F_n in the stress. The second maximum P_{n2} and $P_{\tau2}$ is due to the destruction of structural elements that, after the destruction of the initial network, were formed by orientation in the flow. There are 4 figure

Card 2/3

The Dependence of the Normal and Shearing
Stresses on the Extent of Deformation During
the Transition of the Aluminum Naphthenate Gel
From the State of Rest Into Steady Flow

S/O2C/60/133/004/C30/C31/XX
B004/B064

and 13 references 7 Soviet, 5 US, 3 British, 1 Dutch and 5 German.

ASSOCIATION Institut fizicheskoy khimii Akademii nauk SSSR
(Institute of Physical Chemistry of the Academy of Sciences
USSR)

PRESENTED March 24, 1960 by S. I. Vol'fkovich, Academician

SUBMITTED March 18, 1960

Card 3/3

5/129/62/000/003/039/043
2039/2135

AUTHORS: Morozov, A.S., Petrzlik, G.G., and Trapeznikov, A.A.

TITLE: Rheogoniometer with freely suspended discs and continuous recording for structured colloidal systems and polymer solutions

ADDITIONAL: Priroda i tekhnika eksperimenta, no.3, 1962, 153-157

TEXT: A rheogoniometer for the investigation of normal and tangential forces in colloidal systems and polymer solutions with their deformation is described. The apparatus consists of a normal gonimeter arrangement with a space for the investigation of deformations between a rotating cone and disc. Angles between cone and disc for two interchangeable cones are $3^{\circ} 55'$ and $1^{\circ} 52' 30''$. The cones are truncated by 0.04 mm. Results are given for a 1% solution of aluminium naphthalate in vaseline grease. An oscillogram trace shows the simultaneous growth in time of the normal force acting along the axis of the rotating cone and the value of the torsional moment of the displacement force. Measurement of the dependence of the value of the normal force on radius of the filled part of the cone space showed that

Card 1/2

Rheogoniometer with freely ...

5/120/52/000/005/036/048
E030/2135

$$F_0 = 1/2 P_0 \pi r^2$$

where F_0 is the normal force per unit length at radius r .
A capacity pickup is used to obtain signals showing the growth
of the deformation process from a condition of rest to uniform
flow. The influence of non-parallel axes for the discs and
cones is investigated for various values of clearance between
them.

There are 7 figures.

ASSOCIATION: Institut fizicheskoy khimii AN SSSR
(Institute of Physical Chemistry, AS USSR)

DECLASSIFIED: September 12, 1961

Card 2/2

MOROZOV, A. S.

Mem., All-Union Inst. Fodder Res. im. V. R. Vil'yams, Moscow, -1939-49-.

"Effect of Temperature upon the Reversible Activity of Invertase in Fodder Grasses as Dependent on Their Cold and Heat Resistance," Dok. AN. 23, No. 9, 1939;

"Storing of Carbohydrates by Fodder Grasses," ibid., 24, No. 4, 1939;

"The Biological Importance of Saccarase in Meadow Grasses," Biokhim., 4, No. 1, 1939;

"Influence of Temperature in Various Phenophases on Reversible Action of Invertase in the Fodder Grasses as Related to Their Resistance to Heat," Dok. AN, 26, No. 3, 1940;

"Synthetic and Hydrolytic Action of Invertase at Various Hours of the Day in *BROMUS INERMIS* Leyss," ibid.;

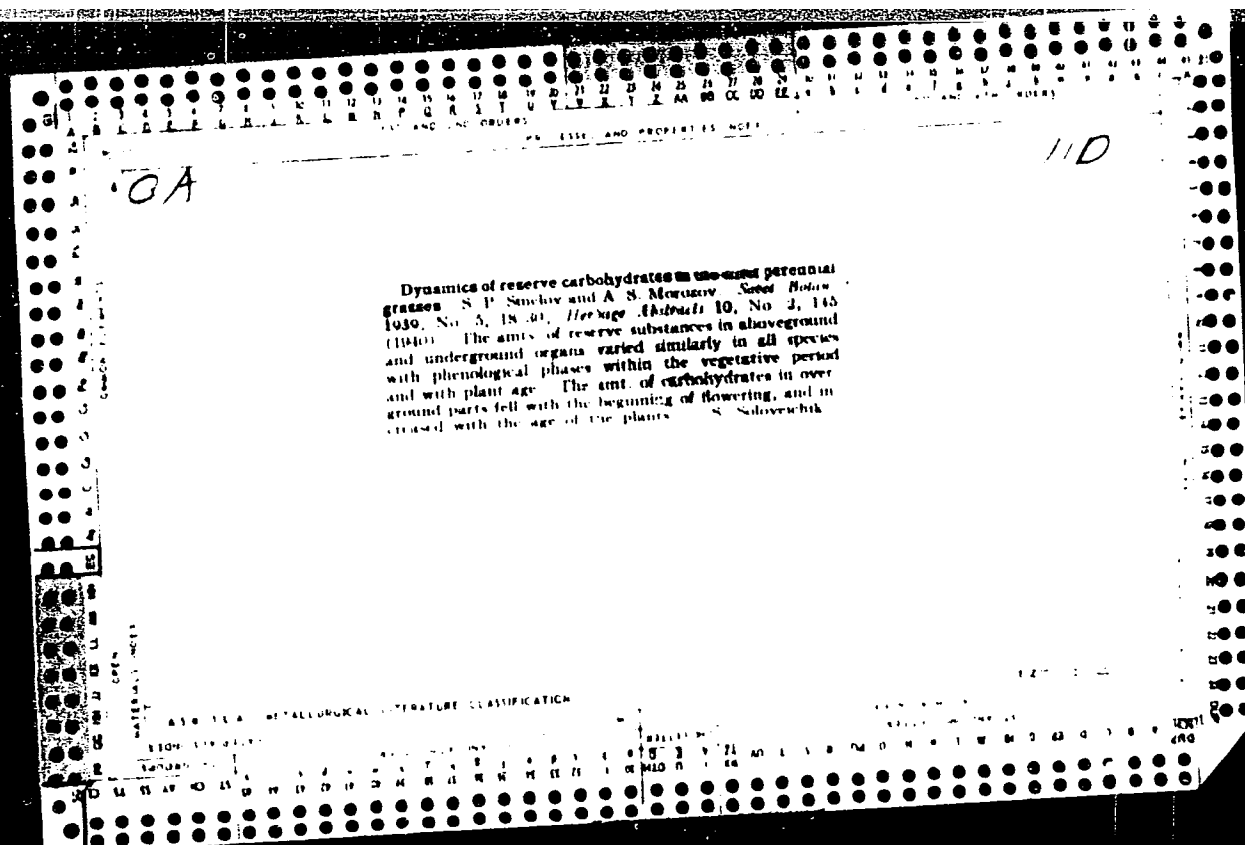
"Influence of Gramacidin S and Phytoncides of Onion and Garlic on the Synthesizing and Hydrolytic Activity of Red Clover Invertase," ibid., 70, No. 2, 1950.

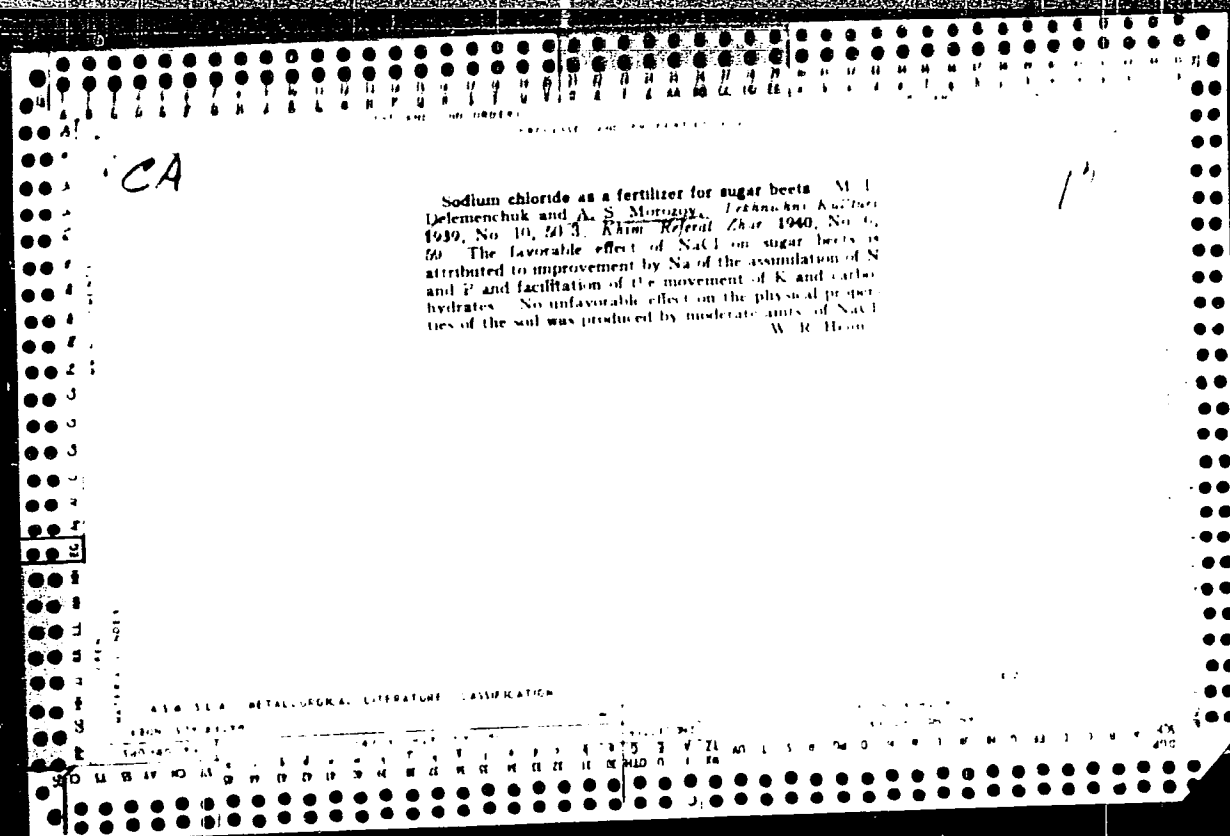
4. Effect of sodium chloride and sodium sulfate on sugar content in melons. A. S. Morozov. *Compt. rend. acad. sci. U. R. S. S. 21, 274-275 (1958)*. The addition of 0.1 mol. NaCl or Na₂SO₄ to soil in which watermelons were growing decreased the content of sucrose in the fruit by 10% and increased the content of glucose and fructose to some extent. The addition of 2 mol. NaCl to soil in which muskmelons were growing increased the content of sucrose by 2% from 4.8% to 4.9%, from 10% to 10.2%, and 3% from 2.4% to 2.7%. Muskmelons were more sensitive to the salinity of the soil than the watermelons. The sucrose content of the muskmelons, however, was increased by the salts. C. K. Horner.

Biological importance of invertase in meadow grasses
 A. S. Morozov, *Biokhimiya* 4, 17-22 (1969). The relation between enzymic properties and the ability of meadow grasses to accumulate carbohydrates was investigated by the method of vacuum infiltration. The ratio of synthesis to hydrolysis was in practically all cases greater than unity, and accounted for the preponderance of sucrose over monosaccharides. H. Cohen

The following is a summary of the above mentioned article.

ASH - 100 METALLURGICAL TEMPERATURE CLASSIFICATION





1ST AND 2ND CHOICES		1ST AND 2ND CHOICES	
32		1-4	
Effect of temperature on the reversible activity of invertase in forage grasses as dependent on their cold- and heat-resistance. A. S. Mononov (Compt. rend. Acad. Sci., U.R.S.S., 1939, 23, 949-951).—The synthesizing and hydrolysing activity of invertase has been studied at intervals of 10° from -5° to 50° in hibernating leaves of <i>Bromus inermis</i> and of <i>Lolium perenne</i> taken from under the snow. Depending on the osmotic pressure the cells are infiltrated with 0.1–0.2M-sucrose for determinations of hydrolysis and of invert sugar for determination of synthesis. After infiltration the plants are kept for 3 hr. at the corresponding temp. In <i>B. inermis</i> the temp. max. are shifted towards low temp.; this is particularly noticeable in plants which have been temp.-hardened. The hydrolysing action of invertase suggests three max. at -5°, 10°, and 50° respectively and the synthetic action has max. at -5° and 20°. At low temp. synthesis prevails markedly over hydrolysis. At -12° the leaves are iced and there is neither synthesis nor hydrolysis. An entirely analogous situation is observed in hibernating leaves of <i>L. perenne</i>. In the leaves of <i>L. perenne</i> grown under greenhouse conditions the temp. max. are shifted towards high temp. The hydrolysing action of invertase has two max. at 30° and 50°			
ASB-11A METALLURGICAL			
SIGNATURE		SIGNATURE	
DATE		DATE	
INITIALS		INITIALS	
REMARKS		REMARKS	

CA

1ST AND 2ND ORDERS

PROCESSES AND PROPERTIES INDEX

3RD AND 4TH ORDERS

12

Storing of carbohydrates by forage grasses. A. S. Morrison.—*Compt. rend. acad. sci. U. R. S. S.* 24, 407, 9 (1939) (in English).—Investigations of *Bromus inermis* Leys., *Loium perenne*, *Festuca pratense*, and some other forage grasses, cleaned, killed, dried, and ground, gave the following results (figures given in tables): (1) Carbo-

hydrates accumulate chiefly in roots, stems, shortened internodes and leaves. The carbohydrates stored are chiefly inulin-like substances and hemicellulose. (2) Sucrose always predominates over monosaccharides, its increase being attended by an increase in the total content of carbohydrates. (3) The carbohydrate content increases with the growth of the plant, attaining a max. at flowering

A. H. Krappe

COMMON ELEMENTS

COMMON VARIATIONS INDEX

OPEN

MATERIALS INDEX

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

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INDEXED

SECONDARY

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PROCESSES AND PROPERTIES INDEX																			
(A) Synthetic and hydrolytic action of invertase at various hours of the day in <i>Bremus tenebris</i>, Lays. (B) Influence of temperature in various phenophases on reversible action of invertase in the fodder granules as related to their resistance to heat. A. S. Kossov (Compt. rend. Acad. Sci. U.R.S.S., 1946, 28, 176-178, 177-179).—(A) The synthetic and hydrolytic activities of invertase are correlated with the sucrose and invert sugar content of the leaves. (B) The synthetic action of invertase predominates at low temp. (10°) and in the early stages of development, hydrolysis at higher temp. (up to 50°) and in the later stages. R. L. E.																			
458-514 METALLURGICAL LITERATURE CLASSIFICATION																			
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MOROZOV, A.S.

25080 MOROZOV, A.S. Dinamika Nakopleniya Zapasnykh Veshchestv V Usloviyakh
Ogranicheniya Protsessov Kushcheniya. V Sh: Voprosy Kormodobyvaniya. Vyp.
2.M., 1949, S. 24-25

30: Letopis', No. 33, 1949

Effect of granicidin S and the phytoalexins of onion and
garlic on the synthetic and hydrolytic activity of red clover
invertase. A. S. Monastov. Doklady Akad. Nauk S.S.S.R.
70, 269-70 (1951) = Infiltration of granicidin S, onion, or
garlic suspensions into the cells of red clover plant, followed
by storage at 30° leads to Granicidin causes decline of
synthetic activity almost to zero, and a decline of the hy-
drolytic activity by 2 fold. The phytoalexins on the other
hand cause an increase of both synthetic and hydrolytic
activity of the invertase, with predominance of the latter.
The increases range from 2x10% to nearly 300%.

G. M. Koshapoff

MOROZOV, A.S.

Effect of methods of cutting and utilization on the carbohydrate metabolism in meadow grasses. Dokl.Akad.sel'khoz. 23 no.11: 17-19 '58. (MIRA 11:12)

1. Vsesoyuznyy sel'skokhozyaystvennyy institut zaochnogo obrazovaniya. Predstavlena akademikem I.V.Larinym.
(Grasses) (Carbohydrate metabolism)

MOROZOV, A. S., Doc Biol Sci (diss) -- "The physiological-biochemical principles of using hay harvests and pastures". Leningrad, 1959. 21 pp (Min Agric USSR, Leningrad Agric Inst), 150 copies (KL, No 25, 1959, 130)

MOROZOV, A.S.; CHEL'TSOVA, L.P.; LEBEDEVA, N.I.

Physiological characteristics of the development of spring, dual-
purpose and winter wheat sown in spring and in fall. Trudy Inst. gen.
no.30:119-128 '63. (MIRA 17:1)

I 11108-66 EWT(1)/ECC CW
ACC NR: AR5016460

SOURCE CODE: UR/0169/65/000/006/D026/D026

AUTHOR: Karasik, A.M.; Morozov, A.S.

ORG: none

TITLE: Data obtained in using a proton-processing magnetometer during an aeromagnetic survey over the Arctic Ocean 53
B

SOURCE: Ref. zh. Geofizika, Abs. 6D185 12,55
12,44,55

REF SOURCE: Sb. Geofiz. priborostr., vyp. 19, L., Nedra, 1964, 74-85

TOPIC TAGS: magnetic field, magnetic field intensity, oceanographic instrument, magnetic measurement

TRANSLATION: The results are examined of experiments conducted during an aeromagnetic survey over the Arctic Ocean of a proton-processing magnetometer (PFM) as an absolute attachment to the relative aeromagnetometers AM-13 and AMM-13. The PM was mounted on a standard electronically computing frequency meter, with added current nodes, giving a temperature (T) calculation accuracy of +2 during a 5 sec. measuring cycle. The intensity of the magnetic field was indicated on the light screen in gammas. The PFM was used at low negative temperatures. With a fixed bracing of the transmitter 250 cm behind the fuselage, the range of the deviation from the course did not exceed 6, according to data given by air and ground control. Multiple surveys of the control

Card 1/2

UDC: 550.838

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ACC NR: AR5016460

route showed a high degree of agreement in the PFM data, with a maximum deviation from the median of 4.5%. In comparing the continuous registry of ΔT by AM-13 and AMM-13 with PFM records registered during 30 minutes, a complete agreement between the computations was established. Causes were found for airplane interferences distorting PFM readings. The merits and shortcomings of PFMs were evaluated. Deductions were made and recommendations offered on the methods and areas for PFM use in geomagnetometry. A. Karasik.

SUB CODE: 08

TS
Card 2/2

KARASEN, S.S.; MOROZOV, A.S.

Fractida in using a proton-proton magnetometer in the
aeromagnetic surveying of the Arctic Ocean. Geofiz. prib.
no.19:74-85 '64. (MIRA 19:6)

MOROZOV, A. T.

DECEASED

1964

SCIL

c. '63

UNDERGROUND WATER

MOROZOV, A.V.

7211. Influence of the intensity of thinning on the growth of a population of *Daphnia*. A. V. Morozov. *Nauch. Ezhegod. Saratov*

Univ., 1955, 253-255; *Referat. Zh. Biol.*, 1956, Abstr. No. 90834. By observation of the free growth of a population of *Daphnia* the existence of two periods—progressive and regressive—is apparent. A formula characterizing the growth of the crustacea in the first period is derived empirically: $lg(y + 75) = 0.11153x + 1.72110$, where x = the age of the population, y = quantity of *Daphnia*. Prognosis of the magnitude of the increase of the population is given by the equation: $lg(y_2 + 75) = 0.11153x + 1.72110$, where y_1 = the quantity of crustacea on any day, y_2 = the quantity on the following day. It is shown that the increase of the population does not cease during daily thinning of up to 40% of the *Daphnia*, and its rate is in inverse proportion to the size of the thinning. With the withdrawal of half or the larger part of the crustacea their quantity diminishes and later stabilizes at a fixed level. Experiments fully confirmed the calculated data. With *Daphnia* culture, where it is necessary to maintain the growth of the population, thinning must not exceed 50%. Best results are obtained by 10–20% daily thinning. (Russian) C. PARNALL

MOROZCV, A.V.

Morphological characteristics of the roaches *Rutilus rutilus natiobergi* and *Rutilus frisii* Nordmann and their hybrids in the Kumbashinka River. Uch. zap. Sar. un. 64:159-182 '59. (MIRA 13:9)
(Kumbashinka River—Roach (Fish))

MAKSIMOVSKAYA, I.S., kand. tekhn. nauk; MOROZOV, A.V., inzh.

Operation of oil vacuum pumps with a ballast gas device. Sbor.
st. NIIXHIMASH no.24:71-76 '58. (MIRA 12:1)
(Pumping machinery) (Vacuum apparatus)

ACC NR: AP6004222

(A)

SOURCE CODE: UR/0331/65/000/009/0025/0027

AUTHOR: Morozov, A. V.

ORG: MLTI

TITLE: Gas turbines for the lumber industry

SOURCE: Lesnaya promyshlennost', no. 9, 1965, 25-27

TOPIC TAGS: turbine engine, turbine regenerator, gas turbine engine

ABSTRACT: The author reviews the operating principles and design of gas turbine generators and discusses the need for such generators, which use wood waste as fuel, especially in the lumber producing areas. 6B type gas turbines with high compression gas generator units can convert wood wastes into gas to be used as a fuel. The study provides modification specifications for this combined unit, its fuel requirements, operational data, and power output, proving the feasibility of building a high compression gas generator unit combined with gas turbines for the production of electric power. Orig. art. has: 2 figures, 2 tables.

SUB CODE: 13/ SUBM DATE: none

UDC: 621.311.23

Card 1/1

BARDIN, V.V., inzh.; MOROZOV, A.V.

Young inventors and efficiency promoters at the Orekhovo Cotton
Combine. Izobr.v SSSR 3 no.1:30-32 Ja '58. (MIRA 11:1)
(Orekhovo-Zuevo--Textile workers)

MOROZOV, A. V.; TUGEYEV, K. S.; BORODOVSKIY, N. A.

Development of an electric charge in mouline yarns during
rewinding on automatic reels. Tekst. prom. 23 no.3:42-45
Mr '63. (MIRA 16:4)

1. Sotrudniki kafedry fiziki Leningradskogo tekstil'nogo
instituta (LTI) imeni S. M. Kirova.

(Winding machines) (Electrostatics)

НОРОСОВ, А. В.

Norosov, A. V.

"The use of legumes in 'lesekhovyye' fruit orchards." Higher Education USSR. Fruit and Vegetable Institute. A. V. Norosov. Leningrad, 1956. (Dissertation for the degree of Candidate in Agricultural Science)

Knizhnaya letopis
No. 15, 1956. Moscow

MOROZOV, A.V.

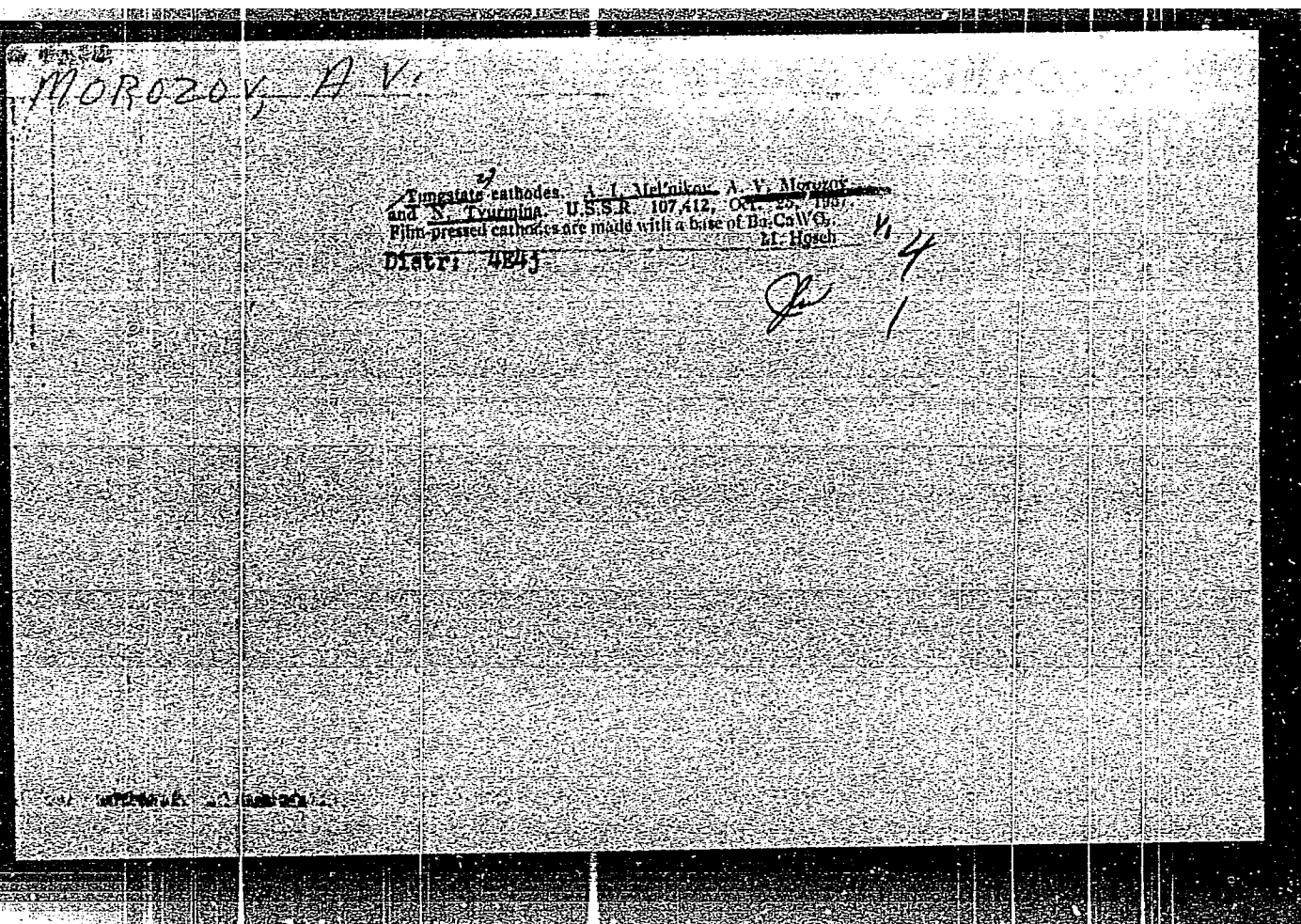
Curves of growth, weight gain, and the rate of increase. Vop. ikht.
3 no.2:408-411 '63. (MIRA 1c.?)

1. Saratovskiy gosudarstvennyy universitet imeni N.G.
Chernyshevskogo.

(Ichthyological research)

KUVSHINOV, G.Ye.; MOROZOV, A.V.; BORISOV, V.I., otv. red.

[Calculation of direct amplitude and phase compounding
systems of marine synchronous generators] Raschet sistem
priamogo amplitudno-fazovogo kompaundirovaniia sudovyykh
sinkhronnykh generatorov. Vladivostok, Primorskoe knizh-
noe izd-vo, 1963. 35 p. (MIRA 18.3)



MOROZOV, A. V.

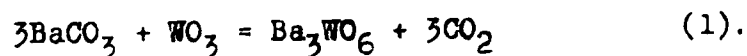
100-3-3. 23

AUTHORS: Mel'nikov, A.I., Morozov, A.V., Popov, B.N. and
Maklakov, A.A.

TITLE: Pressed Cathode Based on Barium-calcium Tungstate
(Pressovanny katod na osnove barij-kal'tsiyevogo
vol'framata)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol.III, No.3,
pp. 322 - 328 (USSR)

ABSTRACT: The active material which is employed in the preparation of pressed film-type cathode should have the following characteristics: capacity to produce the necessary quantity of the activator during its interaction with the reducing agent; good stability under normal atmospheric conditions; a low gas-absorption capacity and a low evaporation rate. The above requirements are, to a large extent, fulfilled by barium tungstate, Ba_3WO_6 . This substance can be prepared from pure barium carbonate and tungsten oxide, the chemical reaction being in the form:



Card 1/3 Properties of the cathode can be further improved by using

Pressed Cathode Based on Barium-calcium Tungstate

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barium-calcium tungstate instead of Ba_3WO_6 . This can be obtained by adding into the mixture of barium carbonate and tungsten oxide an appropriate quantity of calcium carbonate. The reactions are then in the form represented by Eqs. (2), (3) and (4). The resulting material was used in two types of pressed, experimental cathodes (see Figs 2a and 6). The cathodes were in the form of molybdenum cylinders; the active mixture consisted of 90% tungsten, 9.5% tungstate and 0.5% aluminium (by weight). The cathodes were mounted in special diodes (see Fig. 3) which were fitted with special cooling copper anodes. The distance between the cathodes and the anodes was 0.4 to 0.6 mm. The experimental results are shown in Figs. 4, 5, 6 and 7. Fig. 4 shows voltage current characteristics of the diodes taken at various cathode temperatures; the two curves of Fig. 4a were taken under pulse conditions, while the curves of Fig. 4b were measured under static conditions. Fig. 5 shows the static emission current of a tube as a function of time; Curve 1 refers to the cathode made of barium tungstate, while Curve 2 illustrates the emission of a barium-calcium tungstate cathode. Fig. 6 illustrates the influence of hydrogen-poisoning on barium-calcium tungstate cathodes (full

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100-5-44

Pressed Cathode Based on Barium-calcium Tungstate

curves illustrate the poisoning effect, while 'dotted' curves illustrate the process of the reactivation of the cathode). Secondary electron emission of the cathodes was also investigated at temperatures of 800, 900, 1 000, 1 100 and 1 200 °C and the resulting curves are shown in Fig.7. From the data obtained, it is concluded that the barium-calcium tungstate cathodes can produce stable emission densities of 6 to 7 A/cm² at operating temperatures of 1 130 to 1 150 °C; the cathodes have a life of about 1 000 hours, provided the anodes of the tubes are properly cooled. There are 7 figures, and 7 references, 5 of which are English, 1 French and 1 Russian.

SUBMITTED: April 10, 1957

AVAILABLE: Library of Congress
Card 3/3

SCV/109-3-8-8/18

AUTHORS: Kopylov, M.I., Mel'nikov, A.I., Morozov, A.V., Pirov, V.V.,
Sukharevskaya, R.F., Tzarev, S.M. and Shil'kin, A.R.

TITLE: Thermionic Properties of Barium Tungstate (Fiziko-
elektronnyye svoystva vol'framata bariya)

PERIODICAL: Radiotekhnika i Elektronika, 1968, V 13, No 1,
p. 1010 - 1011 (USSR)

ABSTRACT: The work described was concerned with the investigation of the thermionic emission of barium tungstate and Ba_2CaWO_6 . Investigation was undertaken since it was thought that the resulting data might be useful in explaining the operation of the pressed cathodes and other cathodes which contain barium tungstate. The investigations were carried out on directly heated cathodes which were based on tungsten and molybdenum cores. The measurements were made on special experimental devices fitted with protective anodes. The cathode temperature was determined by measuring the change in the resistance of the core. All the measurements were made under static conditions. The coating of Ba_2WO_6 and Ba_2CaWO_6 were effected by two methods: a) a filament of the

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Thermionic Properties of Barium Tungstate

SOV/100-3-8-6/13

core metal was passed through a drop of the coating substance mixed with a binder; b) cataphoretic coating was used. In the first case, coarse-grain coatings were obtained, while the second method permitted obtaining the particles having a diameter of about $1 - 5 \mu$. The cathodes were de-gassed by heating up to 1250°K for the duration of 1 - 2 hours without taking any current.

This processing resulted also in a partial activation of the cathodes. Further activation of the cathodes (by heating and taking the current) was then carried out. During the preliminary activation, it was found that the work function (as measured from the Richardson curves) was of the order of 2.2 eV, while after the final activation, the work function dropped to $1.2 - 0.5 \text{ eV}$. The characteristics of a barium-tungstate cathode after final activation are shown in Figure 2. The emission current and the work function of the same cathode for various activating temperatures are given in Table 1. On the other hand, it was found that the cathodes of $\text{Ba}_2\text{CaW}_2\text{O}_{12}$ had very low emission densities. These were of the order

Ca. $10^{-2}/4$

Thermionic Properties of Barium Tungstate

SOV/109-3-8-5/18

$\mu A/cm^2$, as can be seen from Table 2. By comparing the results of Table 2 with those for Ba_3WO_6 (given in Table 3), it is seen that the emission of the latter is about 100 times higher than that of the former. It was found that the curve:

$$\ln \frac{1}{T^2} = f\left(\frac{1}{T}\right)$$

for the dependence of thermionic emission consists of three regions (Figure 4). At low temperatures (below 1000°K), the curve has the steepest slope; the work function in this region is about 1.5 eV. In the region of intermediate temperatures from 900 to 1350°K, the work function has a value of about 0.5 - 0.7 eV. Finally, at temperatures above 1350°K, the current decreases as a function of temperature and the slope of the curve cannot be regarded as representing the work function.

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Thermionic Properties of Barium Tungstate

SCV/109-3-8-5/18

There are 5 figures, 5 tables and 4 references, 3 of which are Soviet and 1 English.

SUBMITTED: January 29, 1958

Card 4/4

1. Barium tungstates--Properties
2. Thermionic emission--Analysis
3. Cathodes--Performance

AUTHORS: Mel'nikov, A. I., ~~Morozov, A. V.~~ 48-22-5-18/22
 Popov, B. M., Maklinov, A. A.

TITLE: Pressed Cathodes of Aluminates and Tungstates of Barium and Calcium (Pressovannye kately n. omnye aluminatov i vol'framatov bariya-kaltsiya) (Data From VIII. All Union Conference on Cathode Electronics, Leningrad, October 17-24, 1957) (Materialy VIII Vsesoyuznogo soveshchaniya po katodnoy elektronike, Leningrad, 17-24 oktyabrya 1957 g.)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1958
 Vol. 22, Nr 5 pp. 613-621 (USSR)

ABSTRACT: Recently demand for new types of cathodes has risen, as the oxide cathodes fail in the acceptance of emission currents of high density (mostly in high-frequency apparatuses). Therefore the idea of uniting the cathode space, where the active substance is formed, with the sponge by means of a direct introduction of barium combinations into the pores of the latter, has been put forward. There are a) impregnated (Ref 1) and b) pressed cathodes (Ref 2). Figure 1 demonstrates the construction of pressed cathode. It is a molybdenum cylinder, into which a mixture of the active substance, tungsten powder and the reducing substances has been pressed. At the working

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Pressed Cathodes of Aluminates and Tungstates of Barium
and Calcium

48-22-5-18/22

temperature of the cathode, the interaction of the components of this mixture leads to the formation of free barium and to the activation of the cathode. As the barium compounds tested so far had proved unsatisfactory (reference 3,4), the authors set themselves the task of testing the compounds resulting from the interaction of alkaline earth metal oxides of barium and calcium with acidity- and amphoteric oxides. The investigations yielded the following conclusions: 1. The pressed cathodes mentioned in the title permit an uninterrupted emission up to a current density of 6 A cm^{-2} if the time of operation exceeds 1000 hours. 2. The mechanical and electrical stability of the cathodes is satisfactory, they are easily enough reactivated after the poisoning. 3. Their production is simpler than that of the L-cathodes. 4. The emission properties and the life of the cathodes depends on the properties of the active substance. Here Barium-calcium tungstate is superior to aluminates because

Card 2/3

Pressed Cathode: of Aluminates and Tungstates of
Barium and Calcium

48-22-5-18/22

of its stability in air. 5. the tungstate mentioned last makes possible a longer time of operation than the barium tungstate. 6. Preliminary tests have shown that the influence of considerable changes in the concentration of tungstate in the emitter on the emission currents of the cathodes is insignificant. A final interpretation of this phenomenon has not been given yet. S. D. Uman, Z. V. Kukushkina, L. G. Sherstnev, Ye. P. Ostapchenko, A. A. Gugin, A. I. Figner and the first two authors joined in the discussion. There are 9 figures and 9 references 2 of which are Soviet.

1. Cathodes (Electron tube)--Design 2. Cathodes (Electron tube)
--Materials 3. Cathodes (Electron tube)--Effectiveness 4. Barium
aluminates--Applications 5. Calcium aluminates--Applications
6. Barium tungstates--Applications 7. Calcium tungstates--Appli-
cations

Card 3/3

SOV/137-59-4-7945

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 4, p 84 (USSR)

AUTHORS: Maklakov, A.A., Mel'nikov, A.I., Morozov, A.V., Ostapchenko, Ye.P.

TITLE: A Method of Obtaining Tri-Barium Tungstate ¹⁾

PERIODICAL: Avt. sv. USSR 113045, 15.08.58

ABSTRACT: The described method of obtaining Ba_2WO_6 yields products of greater homogeneity and higher purity than previously known methods. In consists in the joint precipitation of Ba tungstenate and Ba carbonate from an aqueous solution of $(NH_4)_2WO_4$, $(NH_4)_2CO_3$ and $Ba(NO_3)_2$. Three weight portions of $(NH_4)_2WO_4$ and $(NH_4)_2CO_3$ are dissolved in 10 weight portions of water, the solutions are mixed, heated up to $60^\circ C$ and a solution of 1 weight portion $Ba(NO_3)_2$ and 7 weight portions of water, heated up to $60^\circ C$, is added. The precipitate is filtrated, dried for 1 hour at $\sim 100^\circ C$ and roasted at $\sim 1,400^\circ C$. Hereby a $BaWO_4 + 2BaCO_3 = Ba_3WO_6 + 2CO_2$ reaction takes place. The yield of the finished product is 96 - 98% of the theoretical amount.

Ye.Z.

Card 1/1

MEL'NIKOV, A. I.; MOROZOV, A. V.; SOBOLEVSKAYA, R. B.; SHUL'MAN, A. R.

Thermionic emission from barium tungstate. Fiz. tver. tela 2 no.4:
704-708 Ap '60. (MIRA 13:10)

(Barium tungstate) (Thermionic emission)

9.3120
5 2200

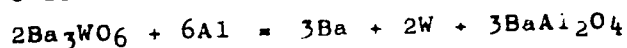
25975
S/539/60/000/031/008/014
E021/E406

AUTHORS: Kovtunenkov, P.V., Kondakov, B.V., Morozov, A.V. and Mel'nikov, A.I.

TITLE: Evaporation of alkaline earth metals from cathodes prepared on a barium-calcium tungstate base

PERIODICAL: Moscow. Khimiko-tekhnologicheskii institut. Trudy, No.31, 1960. Issledovaniye v oblasti khimii i tekhnologii elektrovakuumnykh materialov, pp.55-59

TEXT: The rate of evaporation of alkaline earth metal from pressed cathodes prepared from refractory salts of these metals is important. The cathodes used in the present investigation were prepared by pressing a mixture of tungsten, aluminium and barium-calcium tungstate into a molybdenum cylinder at a pressure of 20 tons/cm² and sintering at 1950°C. As the cathode is used at 1100 to 1200°C free alkaline earth metal is formed as follows:



Some of the free barium formed immediately evaporates and the rest migrates along the emitter and evaporates gradually. The Card 1/3

25975

S/539/60/000/031/008/014

Evaporation of alkaline earth ...

E021/E406

apparatus used to determine the rate of evaporation was a high-vacuum system and the minimum quantity of barium which could be detected was 5×10^{-9} g. After evacuating the apparatus, the cathode was activated for 30 minutes at 1150 to 1200°C and then the rate of evaporation of barium was determined. Fig. 4 shows typical curves of the rate of evaporation of Ba (in g/hr) against time of working of the cathode (hours). The rate of evaporation is highest in the first few hours. With increased time, the rate decreases and tends to a constant value. There are 4 figures, 2 tables and 4 references: 3 Soviet and 1 non-Soviet. The reference to an English language publication reads as follows: E.S.Rittner, W.C.Rutledge, R.H.Ahlert, J.Appl.Phys., 28, No.12, 1468 (1957).

Card 2/3

9.3120
20 20 21

S/109/62/007/009/012/018
D409/D301

AUTHORS: Kovtunenکو, P.V., Morozov, A.V., Mel'nikov, A.I., and
Gusakov, V.V.

TITLE: Evaporation of alkaline-earth metals from rhenium-
barium cathodes

PERIODICAL: Radiotekhnika i elektronika, v. 7, no. 9, 1962,
1593 - 1597

TEXT: The authors studied the rate of evaporation of barium and of
barium oxide from rhenium-barium cathodes, as a function of the pe-
riod of operation of the cathode; the change in the emission pro-
perties of the cathode was also studied. The present investigation
was prompted by the satisfactory results, obtained in replacing
tungsten by rhenium as a cathode material. It was found that the
new (rhenium-barium) cathode gives the same emission-current densi-
ty (5-6 A/cm²) as the tungsten-barium cathode, while operating at
lower temperatures; the total rate of evaporation of barium (or of
calcium from its base) and of its compounds, is of the same order
of magnitude as that from tungsten-barium cathodes. The rate of
Card 1/2

Evaporation of alkaline-earth ...

8/109/62/007/009/012/118
D409/D301

evaporation of the free barium (calcium), was determined by a chemical method, described by the authors in an earlier work. The total amount of free barium and of its oxides was determined by a spectral method, developed by S.A. Savostin. The experiments were conducted by means of an experimental diode with a watercooled copper-anode. It was found that the rate of evaporation of alkaline-earth metals from cathodes which belong to different lots, may differ greatly from lot to lot; this is apparently due to the previous history of the specimens. The dependence of the rate of evaporation on the period of operation, is the same for rhenium-barium cathodes as for tungsten-barium cathodes. It was found that in many cases, but not always, a drop in the rate of evaporation is accompanied by a drop in emission; this indicates the need for further experimental evidence. The fraction of free barium, evaporated from the cathode, did not exceed 10 % of the total amount of evaporated barium; but the amount of barium which is oxidized during the process, was not determined in the experiments. There are 4 figures and 1 table.

SUBMITTED: March 19, 1962

Card 2/2

TUGEYEV, K.S., starshiy prepodavatel'; MOROZOV, A.V., dotsent

Unit for determining the electric conductivity of textile fabrics.
Tekst. prom. 23 no.9:80-82 S '63. (MIRA 16:10)

1. Kafedra fiziki Leningradskogo tekstil'nogo instituta imeni
Kirova.
(Textile fibers—Electric properties)

THUY-V, K.S., standing, by herself; HOANG, A.V., sitting.

Instrument for recording the electrical activity of the
material.

... ..
... ..
... ..

ROMANENKO, Pavel Mikanorovich, professor; MOROZOV, Aleksandr Viktorovich,
docent; ZAYCHIK, G.I., professor, retsenzent; MATVEYEV, G.N.,
redaktor; PITERMAN, Ye.L., redaktor izdatel'stva, KARASIN, A.S.,
tekhnicheskiy redaktor; SHITS, V.P., tekhnicheskiy redaktor

Heatpower equipment in the lumbering and woodworking industry,
Teplosilovye ustanovki lesozagotovitel'noi i derevoobrabatyvayushchey
promyshlennosti. Moskva, Goslesbumizdat, 1956. 471 p. (Mash 19-10)
(Electric power plants)

MOROZOV, A.V., kand.tekhn.nauk

Calculating the radiating heating surface of small boiler
units. Nauch.trudy MTI no.9:7-68 ' 58. (MIRA 11:12)
(Boilers)

PATSIORA, P.P., prof.; SHESTAKOVSKIY, G.F., inzh.; ROMANENKO, P.N.,
prof.; MOROZOV, A.V., kand. tekhn. nauk; dots.; ZARETSKIY,
M.S., red.; MIROPOL'SKIY, Z.L., red.; POPOVA, A.G., red.
~~izd-va~~; SHIBKOVA, R.Ye., tekhn. red.

[Power engineering in the lumber industry] Energetika i snabzheniye
promyshlennosti; spravochnik. Moskva, Goslesbumizdat, 1962.
545 p. (MIRA 16.3)

(Electricity in lumbering--Handbooks, manuals, etc.)

ROMANENKO, P.N.; MOROZOV, A.V., eds., ed. red.

[Thermal electric power plants of forest industry enterprises] Teplovye elektricheskie stantsii leso-promyshlennykh predpriatii. Moskva, Mosk. lesotekhn. in-t
1962. 84 p. (MIRA 18:3)

ROMANENKO, Pavel Nikanorovich, prof.; MOROZOV, Aleksandr Viktorovich,
dots. Prinimal uchastiye RODIONOV, Ye.L., inzh.; PITERMAN,
Ye.L., red.izd-va; KARLOVA, G.L., tekhn. red.

[Arrangement and design of boiler units for industrial
boiler rooms]. Komponovka i raschet kotloagregatov
promyshlennykh kotel'nykh. Moskva, Gosstektimizdat,
1963, 302 p. (MIRA 17:2)

ACC NR: AM6029193

Monograph

UR/

Kudintseva, Galina Alekseyevna; Mel'nikov, Aleksandr Ivanovich; Morozov, Aleksandr Vasil'yevich; Nikonov, Boris Pavlovich

Thermionic cathodes (Termoelektronnyye katody) Moscow, Izd-vo "Energiya," 1966. 367 p. illus., biblio. 7500 copies printed.

TOPIC TAGS: electron tube cathode, thermionic emission, electron emission, emissivity

PURPOSE AND COVERAGE: This book may be used by students studying electronics and also by engineers and technicians concerning with the design of electrovacuum devices and cathode production technology. The book describes the technology of production and basic physical, technological and operational characteristics of various types of thermo-ionic cathodes for vacuum devices such as oxide cathodes, high-temperature cathodes based on the rare earth oxides and thorium oxide, various forms of pressed, impregnated and cell metalloporous cathodes, metalloceramic and boron-coated cathodes and their heaters. Major attention is given to the rational selection of cathodes, their structures, materials and processing methods. Chapters I—IV were written by B. P. Nikonov; V and VII by A. V. Morozov; VI and IX A. I. Mel'nikov; and VIII by G. A. Kudintseva. A. I. Belousov, P. M. Bernshteyn, L. A. Vikman, A. A. Gugin, L. A. Yermolayev, A. B. Kiselev, M. V. Kaganovich, G. M. Kuznetsova, E. V. Lobova, R. A. Makarova, L. N. Nevskaya, V. I. Nekrasov, T. M. Novikova, I. A. Noskova, N. M. Ogaleva, S. Ya. Rozhkov, V. Smirnov,

Card 1/6

UDC: 621.385.7

ACC NR: AM6029193

L. Ya. Smoktiy, and A. Ye. Filippova participated in the experiments described in the book. References follow each chapter.

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ACC NR: AM6029193

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AVAILABLE Library of Congress

SUB CODE: 09/ SUBM DATE: 05Apr66/ ORIG REF: 186/ OTH REF: 139

Card 6/6

L 34714-65 EWG(j)/ENT(m)/FCC/T/EWA(m)-2 IJP(c)

ACCESSION NR: AP4049587

S/0048/64/028/011/1761/1763

AUTHOR: Guseva, V.V.; Dubrovina, S.A.; Lebedev, A.M.; Morozov, A.Ya.; San'ko, L.A.; Sokolovskiy, V.V.; Siavatskiy, S.A.; Tolkachev, B.V.

TITLE: Nucleon-nucleus collisions at high energies /Report, All-Union Conference on the Physics of Cosmic Rays held in Moscow 4 to 10 Oct 1963/

SOURCE: AN SSSR. Izv. Seriya fizicheskaya, v.28, no.11, 1964, 1761-1763

TOPIC TAGS: cosmic ray, high energy interaction, nucleon nucleus interaction, hydrodynamic theory

ABSTRACT: The work presents an attempt to describe the interaction of high-energy (10^{11} to 10^{12}) nucleons with complex nuclei from the standpoint of a succession of statistically independent encounters of the incident particle with the nucleons of the target nucleus. The nucleon interaction cross sections were calculated by the classical method of impact parameters. The Hoistadter data on electron scattering were used to evaluate the proton densities. Numerical calculations were carried out for the cross sections for nuclei with $A = 6, 9, 12, 14, 16, 56, 122$ and 207 . The

L 34711-65

ACCESSION NR: AP4049587

calculated values of σ are in good agreement with the power function $\sigma = \sigma_0 A^{3/4}$. Further, there were calculated the values of the mean fraction Δ of the energy retained by the nucleon after interaction with a complex nucleus. The results of these calculations are compared with some experimental data in Fig.1 of the Enclosure. The agreement is best (but far from perfect) on the assumption of an inelasticity coefficient 0.35 ($\Delta_0 = 0.65$). The values of the anisotropy parameter (proportional to $\sigma/\sigma_{isotropic}$) as a function of the jet multiplicity n_s (which may be taken as a measure of the length of the reaction tube or the number of nucleons with which the incident particle interacts) obtained by interpolation of the experimental data are compared in Fig.2 of the Enclosure with the functional dependence calculated on the basis of hydrodynamic theory; here the disagreement is substantial. This is interpreted as an argument in favor of the assumption of successive interaction of the incident nucleon with the nuclear nucleons. "The authors are grateful to N.A.Dobrotin, Ya.L.Feynberg, G.B.Zhdanov and D.S.Chernavskiy for discussions and valuable suggestions." Orig.art.has: 4 formulas and 2 tables.

2/4

L 34714-65

ACCESSION NR: AP4049587

ASSOCIATION: Fizicheskii institut im. P.N. Lebedeva Akademii nauk SSSR (Physics Institute, Academy of Sciences, SSSR)

SUBMITTED: 00

ENCL: 01

SUB CODE: AA, NP

NR REF SOV: 007

OTHER: 002

3/4

L 34714-65

ACCESSION NR: AP4049587

ENCLOSURE: 01

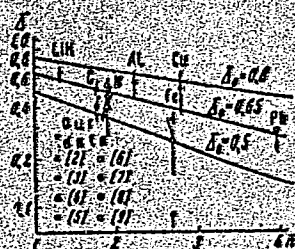


Fig. 1. Mean fraction of the energy retained by the nucleon after interaction with different nuclei. Points - experimental (the numbers in brackets are the references from which the data were taken); lines - results of calculations for $\Delta_0 = 0.8, 0.65$ and 0.5 .

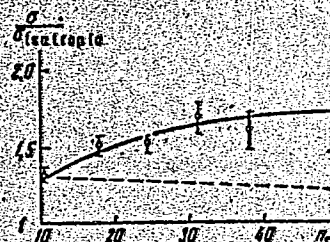


Fig. 2. Variation of $\sigma/\sigma_{\text{isotropic}}$ with n_g . Solid line - interpolation of experimental data; dashed line - calculations based on the hydrodynamic theory.

Card 4/4

ACC NR: AP7007076

SOURCE CODE: UR/0048/66/030/010/1577/1580

AUTHOR: Denisov, Ye. V.; Dedenko, L. G.; Dubrovina, S. A.; Kotel'nikov, K. A.;
Morozov, A. Ye.; Ogurtsov, O. F.; Sokolovskiy, V. V.; Slavatskiy, S. A.;
Fetisov, I. N.

ORG: Physics Institute im. P. P. Lebedev, AN SSSR (Fizicheskii Institut
AN SSSR)

TITLE: Nuclear cascade process in an ionization calorimeter /Paper
presented at the All-Union Conference on Cosmic radiation physics, Moscow,
15-20 Nov 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 10, 1966,
1577-1580

TOPIC TAGS: pi meson, calorimeter, proton

SUB CODE: 20

ABSTRACT: Results of the calculation of the nuclear cascade process in an iron
absorber were correlated with experimental data obtained on the ionization ca-
lorimeter of the Tyan'-Shan' Cosmic Ray Station. It was established that at
 $E_0 = 300$ Bev approximately 30% of the energy spent being carried away by
strongly ionizing particles ("black tracks"), and the rest by protons with an
energy of ~ 150 Mev ("grey tracks"). Errors in the measurement of $E_0 = 200$
Bev associated with fluctuations in the recording of strongly ionizing parti-
cles amounted to $\sim 12\%$ ($\sim 11\%$ for "black tracks" and $\sim 4\%$ for "grey
tracks"). In measurements by means of an ionization calorimeter of the energy
transmitted to π^0 mesons, ionization produced by particles originating from
nuclear splitting must be considered. The authors thank N. A. Dobrotin and V. S.
Murzin for valuable critical observations, V. G. Ignat'yevaya, Z. G. Yereiminaya,
Card 1/2

ACC NR: AP7007076

L. V. Shibayevaya and N. S. Kochurkinaya for processing the experimental data. Orig. art. has: 2 figures, 2 formulas and 1 table. [JPRS: 39,658]

Card 2/2

MOROZOV, A.Z.

Resources of the growth of labor productivity. Kozh. obshch. prom.
6 no.10:4-6 0 '64. (MIRA 18 1.

1. Glavnyy ekonomist moskovskogo obshchestvennogo predpriyatiya moye-
noy obuvi "Vostok".

INTER. N. L. A. NOV 1961

9-14 My '65. (MIL) 20

1. Slavyany iznasheni M. K. Kozlovskiy, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655,

MOROZOV, B.A.

Met od of setting-up the indirect hemagglutination reaction in
listeriosis. Zh. mikrobiol. 40 no.7:90-92 J1'63 (MIRA 17:1)

1. Iz Tomskogo meditsinskogo instituta.

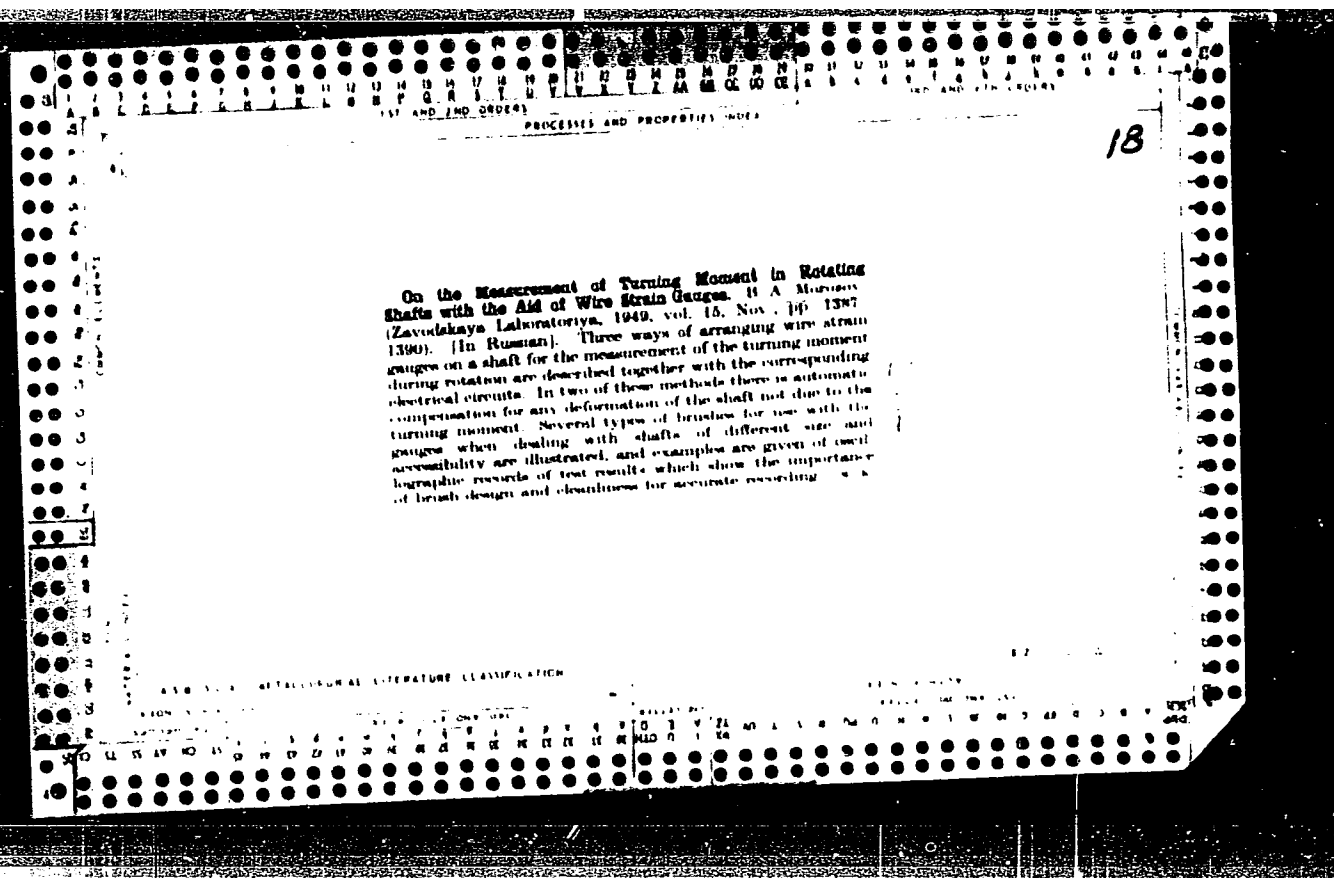
МОРОЗОВ, Б.; НАПОЛЕКИЙ, Г.

Elastic rubber elements in transport and other devices.
Avt. transp. 43 no. 9:41 1965. (X) 12.1.

CP 9

The effect of sulfur gases upon scale formation during heat-treatment. B. A. Morozov and A. V. Tursunov. *Metallurg* 13, 22 (July-Aug., 1968). *Met. Abstracts in Metals & Alloys* 10, No. 4, 280 (1969). The presence of about 0.025% S gases in the combustion products (oxidizing atm.) at 800-900° resulted in a sharp increase of scaling in steel of 1.0% Cr and 4.0% Ni. When the S gases reached 0.05-0.1%, the metal surface became strongly scaled with S. The scaling proceeded in the form of a strongly corroded, uneven layer. This was considerably reduced in a neutral atm. and was totally absent in a reducing atm. High-S fuel may be used in an oxidizing atm. provided the combustion products are diluted with air to contain less than 0.025% S gases. C. L. B.

ASME S.L.A. METALLURGICAL LITERATURE CLASSIFICATION



МОРОЗОВ, В. А.

O nekotorykh vozmozhnostyakh umen'sheniya velichiny koefitsienta zapasa prochnosti. (Vestn. Mash., 1963, no. 11, p. 5-6)

Some possibilities of reducing the safety factor.

ISS: TMH.Hu

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1963.

MOROZOV, B.A., kandidat tekhnicheskikh nauk.

Investigation of the sturdiness of the bed plate of rolling mill stands.
Vest.mash. 33 no.11:23-26 N '53. (MIRA 6:12)
(Rolling-mill machinery)